



PATENT  
Q202-US1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Bookeun OH et al.

Serial No: 10/810,080

Filed: March 25, 2004

For: ELECTROLYTE FOR USE IN  
ELECTROCHEMICAL DEVICES

Art Unit: N/A

Examiner: N/A

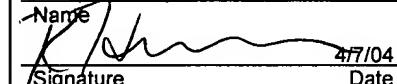
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Commissioner for Patents  
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Kathy Hinckley

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4/7/04  
Signature Date

**TRANSMITTAL OF  
INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313

Dear Sirs:

- The information disclosure statement submitted herewith is being filed within three months of the filing date of the application other than a continued prosecution application, or within three months of the date of entry into the national stage of an international application, or before the mailing date of a first Office Action on the merits, or before the mailing of a first Office action after the filing of a request for continued examination under §1.114, whichever event occurs last. 37 C.F.R. §1.97(b).
- The information disclosure statement transmitted herewith is being filed *after* the period specified in §1.97(b), but *before* the mailing date of a final action under §1.113, or a notice of allowance under §1.311, or an action that otherwise closes prosecution in the application, whichever occurs first. A statement specified in §1.97(e) or a fee set forth in §1.17(p) is included. 37 C.F.R. §1.97(c).

**§1.97(e) STATEMENT**

I, the person signing below, state:

that each item of information contained in the information disclosure statement was first cited in the attached communication from a foreign patent office in a counterpart foreign application and that the communication is dated not more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(1).

**OR**

that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(2).

OR FEE

- Attached is a fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c). (\$180.00).
- Please charge the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c) (\$180.00) to Deposit Account No. 50-0921, referencing docket number \_\_\_. A copy of this petition is enclosed.

3.  The information disclosure statement transmitted herewith is being filed *after* the period specified in §1.97(c), but before, or simultaneously with the payment of the issue fee. A statement specified in §1.97(e) and a fee set forth in §1.17(p) are included. 37 C.F.R. §1.97(d).

§1.97(e) STATEMENT

I, the person signing below, state:

- that each item of information contained in the information disclosure statement was first cited in the attached communication from a foreign patent office in a counterpart foreign application and that the communication is dated not more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(1).

OR

- that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the statement. 37 C.F.R. §1.97(e)(2).

AND FEE

- Attached is a fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(d). (\$180.00).
- Please charge the fee set forth in 37 C.F.R. §1.17(p) for submission of an information disclosure statement under §1.97(c) (\$180.00) to Deposit Account No. 50-0921, referencing docket number \_\_\_. A copy of this petition is enclosed.

4. The filing of an information disclosure statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in § 1.56(b) [37 C.F.R. § 1.97(h)]. Further, applicants make no admission that all references presented here are prior art in relation to the present application.
5. If it should be determined that for any reason either an insufficient fee or an excessive has been paid, please charge any insufficiency or credit any overpayment necessary to ensure consideration of the information disclosure statement for the above-identified application to Deposit Account No. 50-0921. **A copy of this petition is enclosed.**
6. A list of 171 reference(s) is in the enclosed Form PTO-1449.
  - Pursuant to 37 C.F.R. § 1.98(d), a copy / copies of some of the listed reference(s) is / are not provided since it is / they are of record in parent application Serial No. \_\_ filed \_\_, the benefit of the filing date of which is claimed herein under 35 U.S.C. § 120.

NON-ENGLISH LANGUAGE REFERENCES

- Enclosed is a search report for a counterpart application. The search report Examiner has provided comments on the relevancy of any non-English language references cited in the search report.
- The specification incorporates comments on the relevancy of Non-English language references.
- Set forth below are comments provided by the applicant's home country counsel on the relevancy of non-English language references: N/A

Respectfully submitted,

By:   
M. Elizabeth Bush  
Registration No. 38,402  
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Date: April 7, 2004

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT  
(use as many sheets as necessary)

Sheet	1	of	7	Attorney Docket number	Q202-US1
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Complete if Known

Application Number	10/810,080
Filing Date	March 25, 2004
First Named Inventor	Bookeun OH et al.
Art Unit	N/A
Examiner Name	N/A

US PATENT DOCUMENTS

Examiner Initials	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
	Number – Kind Code		
	US-3,172,899	03-09-1965	Bailey
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	US-2003/0099884 A1	05-29-2003	Chiang et al.

Examiner Signature		Date Considered	
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Examiner Initials	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
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	US-6,573,009 B1	06-03-2003	Noda et al.
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	US-6,610,109 B2	08-26-2003	Noh
	US-6,653,015 B2	11-25-2003	Yoshida et al.
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	Office	Number	Kind				
	JP	57-034662		02-25-1982	Hitachi Maxell Ltd	✓	
	JP	57-034661		02-25-1982	Hitachi Maxell Ltd	✓	
	JP	57-080670		05-20-1982	Yuasa Battery Co Ltd	✓	
	JP	57-111957		07-12-1982	Toshiba Corp	✓	
	JP	57-176669	A2	10-30-1982	Toshiba Battery Co. Ltd.	✓	
	JP	59-224072	A2	12-15-1984	NEC Corp	✓	✓
	JP	60-195877		10-04-1985	NEC Corp	✓	✓
	JP	60-216461		10-29-1985	NEC Corp	✓	✓
	JP	61-288374		12-18-1986	Matsushita Electric Ind Co Ltd	✓	
	JP	62-209169	A2	09-14-1987	Sumitomo Electric	✓	✓
	JP	63-010466		01-18-1988	Sanyo Electric Co Ltd	✓	✓
	JP	63-310569		12-19-1988	Matsushita Electric Ind Co Ltd	✓	✓
	JP	02-080462		03-20-1990	Toray Dow Corning Co LTD	✓	✓
	JP	02-262274		10-25-1990	Matsushita Electric Ind Co Ltd	✓	✓
	JP	02-291603		12-03-1990	Hitachi Maxell Ltd	✓	
	JP	03-139566		06-13-1991	Toray Dow Corning Silicone Co LTD	✓	✓
	EP	0 450 981	A1	10-09-1991	Ultracell Incorporated		✓
	JP	60-052893	A2	07-31-1992	Mitsubishi Cable	✓	✓
	EP	0 525 728	A1	02-03-1993	Dow Corning Toray Silicone Company, Limited		✓
	JP	05-036441		02-12-1993	Toray Dow Corning Silicone Co Ltd	✓	✓
	JP	05-290616		11-05-1993	Mitsubishi Cable Ind Ltd	✓	✓
	EP	0 581 296	A2	02-02-1994	Dow Corning Toray Silicone Co., Ltd.		✓
	EP	0 581 296	A3	02-02-1994	Dow Corning Toray Silicone Co., Ltd.		✓
	JP	07-320782		12-08-1995	Sanyo Electric Co Ltd	✓	✓
	JP	08-078053	A2	03-22-1996	Ricoh Co Ltd	✓	✓
	WO	96/21953		07-18-1996	SRI International		✓
	JP	09-306544		11-28-1997	Toshiba Corp	✓	✓

Examiner Signature		Date Considered	
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<p>Substitute for form 1449A/PTO</p> <p>INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)</p>				<u>Complete if Known</u>		
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Examiner Initials	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	English Abstract	Machine Trans- lation	Entire Docu- ment
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	EP	0 922 049	B1	02-26-1998	Merck Patent GmbH			
	JP	10-172615	A2	06-26-1998	Toshiba Battery Co. Ltd.	✓	✓	✓
	EP	0 932 215	A1	01-25-1999	Sony Corporation			✓
	JP	11-185804		07-09-1999	Toyama Yakuhin Kogyo KK	✓	✓	✓
	EP	0 796 511	B1	08-18-1999	SRI International			✓
	JP	11-238523		08-31-1999	Mitsubishi Paper Mills Ltd			✓
	JP	11-302383		11-02-1999	Kanegafuchi Chem Ind Co Ltd	✓		✓
	JP	11-302384	A2	11-02-1999	Kanegafuchi Chem	✓		
	JP	11-306857	A2	11-05-1999	Kanegafuchi Chem ind Co Ltd	✓		✓
	JP	11-306856	A2	11-05-1999	Kanegafuchi Chem	✓		✓
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	WO	00/08654		02-17-2000	Sony Corporation			✓
	JP	2000-058123		02-25-2000	Sony Corp	✓	✓	✓
	WO	00/25323	A1	05-04-2000	Kaneka Corporation			
	JP	2000-154254	A2	06-06-2000	Mitsubishi Paper Mills Ltd Nippon Unicar Co Ltd	✓	✓	✓
	EP	1 024 502	A1	08-02-2000	Sony Corporation			✓
	JP	2000-222939	A2	08-11-2000	Sony Corp	✓	✓	✓
	JP	2000-277152	A2	10-06-2000	Hitachi Ltd.	✓	✓	✓
	JP	2001-068115		03-16-2001	Hitachi Chem Co Ltd	✓	✓	✓
	JP	2001-110455	A2	04-20-2001	Sony Corp	✓	✓	✓
	EP	0 932 215	B1	05-16-2001	Sony Corporation			✓
	JP	2001-185165	A2	07-06-2001	Kyocera Corp	✓	✓	✓
	WO	01/73884	A1	10-04-2001	NGK Insulators, LTD			✓
	JP	2001-283913		10-12-2001	Kyocera Corp	✓	✓	✓
	JP	2001-283907	A2	10-12-2001	NGK Insulators Ltd	✓	✓	✓
	WO	01/96446	A1	12-20-2001	Arizona Board of Regents			
	WO	01/99209	A2	12-27-2001	Arizona Board of Regents			
	JP	2002-063936	A2	02-28-2002	Kanegafuchi Chem Ind. Co Ltd	✓	✓	✓
	EP	1 202 374	A1	05-02-2002	NGK Insulators, LTD			✓
	JP	2002-151150	A2	05-24-2002	Samsung SDI Co Ltd	✓	✓	✓

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<p>Substitute for form 1449A/PTO</p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)</p>				<u>Complete if Known</u>			
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	Office	Number	Kind					
	JP	2002-155142	A2	05-28-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2002-298913	A2	10-11-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2002-343440	A2	11-29-2002	Fuji Photo Film Co	✓	✓	✓
	JP	2003-002974	A2	01-08-2003	Chisso Corp	✓	✓	✓
	WO	03/083971	A1	10-09-2003	Oh et al.			✓
	WO	03/083970	A1	10-09-2003	Oh et al.			✓
	WO	03/083972	A1	10-09-2003	Amine et al.			✓
	WO	03/090299	A1	10-30-2003	West et al.			✓
	WO	03/083973	A1	10-09-2003	West et al.			✓
	WO	03/083974	A1	10-09-2003	Yoon et al.			✓

### OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	M. ARMAND, New Electrode Material, Proceedings of the NATO Sponsored Advanced Study Institute on Fast Ion Transport in Solids, Solid State Batteries and Devices, 1972, Belgirate, Italy.
	D. FENTON et al., Complexes of Alkali Metal Ions with Poly(Ethylene Oxide), Polymer, November 1973, 589, 14.
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	P. BLONSKY et al., Polyphosphazene Solid Electrolytes, Journal of American Chemical Society, 1984, 6854-6855, 106.
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	I. KELLY et al., Poly(Ethylene Oxide) Electrolytes for Operation at Near Room Temperature, Journal of Power Sources, 1985, 13-21, 14.
	D. FISH et al., Conductivity of Solid Complexes of Lithium Perchlorate with Poly{[w-methoxyhexa(oxyethylene)ethoxy]methylsiloxane} <sup>a</sup> , Makromol. Chem., Rapid Commun., 1986, 115-120, 7.

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				<u>Complete if Known</u>	
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Sheet	5	of	7	Examiner Name	N/A
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### OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	P. HALL et al. Ion Conductivity in Polysiloxane Comb Polymers With Ethylene Glycol Teeth, <i>Polymer Communications</i> , 1986, 3 pages, 27.
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	D. FISH et al., Polymer Electrolyte Complexes of ClO <sub>4</sub> and Comb Polymers of Siloxane with Oligo-oxyethylene Side Chains, <i>British Polymer Journal</i> , 1988, 281-288, 20, 3.
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	M. GAUTHIER et al., Large Lithium Polymer Battery Development The Immobile Solvent Concept, <i>Journal of Power Sources</i> , 1995, 163-169, 54.
	K. ABRAHAM et al., Highly Conductive PEO-Like Polymer Electrolytes, <i>Journal of Chemical Materials</i> , 1997, 1978-1988, 9(9).

Examiner Signature		Date Considered	
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Substitute for form 1449A/PTO				<u>Complete if Known</u>	
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### OTHER DOCUMENTS

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	M. FURLANI et al., Time Resolved Luminescence and Vibrational Spectroscopic Studies on Complexes of Poly(Ethylene Oxide) Oligomers and Eu(TFSI) <sub>3</sub> Salt, 11 <sup>th</sup> International Conference on Solid State Ionics, 1997, 10 pages.
	J. GNANARAJ et al., Studies on Comb-like Polymer Blend with Poly(Ethylene Oxide) – Lithium Perchlorate Salt Complex Electrolyte, Polymer, 1997, 3709-3712, 38(14).
	F. GRAY, Polymer Electrolytes, RSC Materials Monographs, UK, 1997, 46-49.
	S. KOHAMA et al., Alcoholysis of Poly(methylhydrogensiloxane), Journal of Applied Sciences, 1997, 21, 863-867.
	C. LETOURNEAU et al., Progress in Lithium-Metal-Polymer Battery System for Electric Vehicles, <a href="http://www.avestor.com/iaactivefiles/evs15.pdf">http://www.avestor.com/iaactivefiles/evs15.pdf</a> , <a href="mailto:info@avestor.com">info@avestor.com</a> , INTELEC, October, 1998, Canada, 1-10.
	R. HOOPER et al., A Highly Conductive Solid-State Polymer Electrolyte Based on a Double-Comb Polysiloxane Polymer with Oligo(Ethylene Oxide) Side Chains, Organometallics, American Chemical Society, 1999, 3249-3251, 18(17).
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Substitute for form 1449A/PTO				<u>Complete if Known</u>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(use as many sheets as necessary)</i>				Application Number	10/810,080
				Filing Date	March 25, 2004
				First Named Inventor	Bookeun OH et al.
				Art Unit	N/A
				Examiner Name	N/A
Sheet	7	of	7	Attorney Docket number	Q202-US1

#### OTHER DOCUMENTS

Examiner Initials	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, cite and/or country where published
	B. OH et al., New Interpenetrating Electrolyte Network-Type Siloxane Polymer Electrolyte, Electrochemical and Solid State Letters, 2002, E59-E61, 5(11), The Electrochemical Society, Inc., September 11, 2002.
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	International Search Report, dated 10-09-2003, received in relation to Application No. PCT/US03/08779.
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Examiner Signature		Date Considered	
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